BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Office of the Executive Engineer Dasarahalli Division

SCHDULE-B

Name of Work: Improvements to roads and drains at Ganapathi Badavane 1st main roads & Other Cross roads in Ward no 14

Sl	Description of Work	Unit	Qty	Sanctioned Rates	
				In figures (Rs)	In Words (Rs)
1	2	3	4	5	6
1	Excavation for road, drains and similar works - KSRRB 300-1 Earthwork excavation by manual means in **Ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications	Cum	861.00	86.92	Rupees Eighty six & Ninty Two Paise Only
2	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications. (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification	Cum	438.07	320.12	Rupees Three hundred twenty & Twelve Paise Only
3	Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	70.74	5159.02	Rupees Five Thousand One hundred Fifty Nine & Two Paise Only
4	Providing and removing **centering,** shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications.	Sqm	1572.00	316.58	Rupees Three hundred ten & Fifty Eight Only

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	...sign mix M20 with OPC cement @ 320kgs, with ...0mm and down size graded granite metal coarse ...ggregates @0.69cum and fine aggregates @ ...cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008- i) Upto 5 m height	Cum	141.47	6965.26	Rupees Six thousand nine hundred Sixty Five & Twenty Six Only
6	Supplying, fitting and placing TMT bar Fe 500 reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specifications	Tonne	11.09	66482.14	Rupees Sixty Six thousand four hundred Eighty two & Fourteen Only
7	Supplying and fixing **precast** rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.	Sqm	353.70	1698.00	Rupees One thousand Six hundred Ninty Eight Only
8	For Grading I material construction of granular sub-base by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material	Cum	97.35	1518.98	Rupees One Thousand Five hundred & Eighteen & Ninty Eight Paise Only
9	Providing, laying, spreading and compacting graded stone aggregates to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.	Cum.	223.90	1768.08	Rupees One thousand Seven hundred Sixty Eighy & Eight Paise Only
10	Providing and applying primer coat with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work	Sqm	973.50	27.56	Rupees Twenty Seven & Fifty Six Paise Only
11	Providing and applying tack coat on the prepared black topped surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications.	Sqm	973.50	11.66	Rupees Eleven & Sixty Six Paise Only

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12	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work	Cum	48.67	5129.34	Rupees Five Thousand One hundred Twenty Nine & Thirty Four Paise Only
13	Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment, rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Speicification clause no 500.9 complete in all respects complete as per specification no 509. using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen	Cum	29.20	7083.98	Rupees Seven Thousand Eighty Three & Ninty Eight Paise Only
14	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Km a) Basic rate for haulage of materials as per item No. 17.4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1.28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading	Cum	861.00	85.65	Rupees Eighty Five & Sixty Five paise Only

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